NOVEMBER/DECEMBER 2025

FESC63C/CCA43/CSCS43/CESC63C — WIRELESS DATA COMMUNICATION

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is network topology?

2. Define Data Communication.

3. Mention the types of transmission media.

4. How do you know if a signal is non-periodic?

5. Define gateway.

6. Define Circuit Switching.

7. What is the importance of Bluetooth technology?

8. What is the need for wireless ATM?

9. Define Internet address.

10. What is meant by Multicast addresses?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe about the components of Data communication system with neat diagram.

Or

(b) Discuss the ring and bus topologies.

12. (a) Write about the most significant transmission impairments in detail.

Or

(b) Enumerate the differences between analog and digital signals.

13. (a) Mention about the working principle of Packet Switching network.

Or

(b) Explain about error control mechanism.

14. (a) List and explain the disadvantages of wireless LAN.

Or

(b) Explain the handover reference model.

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15. (a) Why we need Internet Group Message Protocol? Explain.

Or

(b) Write down the importance of File Transfer Protocol.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Briefly explain OSI reference model in detail with diagram.

17. Elaborate the unguided media available for data communication.

18. Give detailed notes on Distance vector routing algorithm.

19. Briefly explain about wireless ATM.

20. Explain in detail about Transmission Control Protocol with neat diagram.

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